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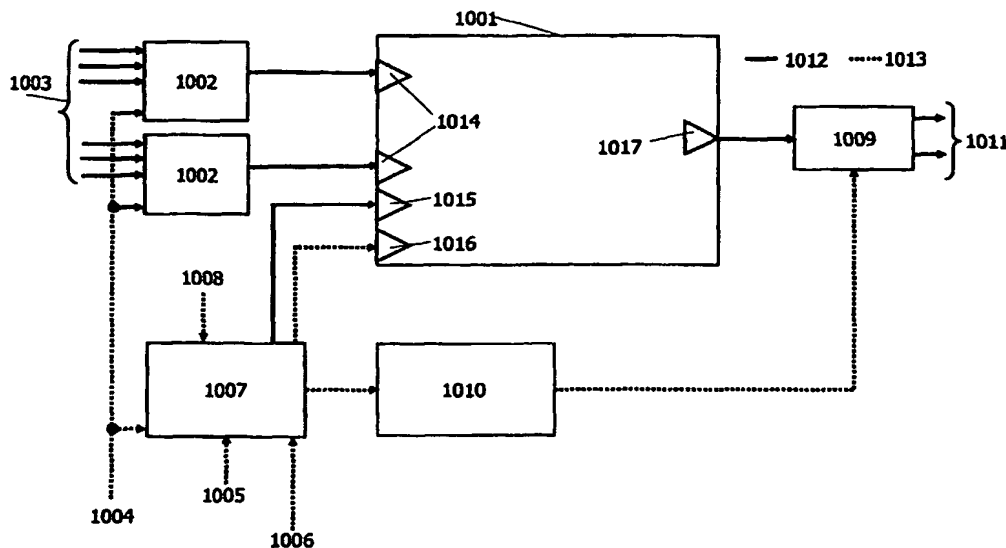
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(54) Title: A CONFIGURABLE MICROPROCESSOR ARCHITECTURE INCORPORATING DIRECT EXECUTION UNIT CONNECTIVITY



(57) Abstract: An architecture for a highly configurable and scalable microprocessor architecture designed for exploiting instruction level parallelism in specific application code. It consists of a number of execution units with configurable connectivity between them and a means to copy data through execution units under software control.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

national Application No

GB 03/02774

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F15/78

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data, IBM-TDB, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 311 261 B1 (CHAMDANI JOSEPH I ET AL) 30 October 2001 (2001-10-30) figures 6,8,11,12,15,17	1,2,12, 24,25
X	US 5 799 163 A (PARK HEONCHUL ET AL) 25 August 1998 (1998-08-25) abstract figure 1 column 3, line 14 - line 18	1,2,12, 24,25
X	US 5 619 664 A (GLEW ANDREW F) 8 April 1997 (1997-04-08) abstract figure 5	1,2,12, 24,25
A	US 5 958 043 A (MOTOMURA MASATO) 28 September 1999 (1999-09-28) abstract	1,2,12, 24,25
-/-		

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

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22.04.2004

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INTERNATIONAL SEARCH REPORT

ational Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 223 277 B1 (KARGUTH BRIAN J) 24 April 2001 (2001-04-24) abstract figure 3</p> <p>-----</p>	<p>1,2,12, 24,25</p>

INTERNATIONAL SEARCH REPORT

international application No.
PCT/GB 03/02774

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1,2,12,24-25

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,12,24-25

Microprocessor copying operands to results with identity operations.

2. claims: 3-5,17

Microprocessor with specific register specifications.

3. claims: 6-9

Configurable microprocessor architecture.

4. claims: 10-11,16

Microprocessor with specific control of output registers.

5. claims: 13-15

Microprocessor with specific execution control bits.

6. claims: 18-23

Microprocessor with specific execution of a sequence of instructions.

INTERNATIONAL SEARCH REPORT

International Application No

GB 03/02774

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 5799163	A	25-08-1998	KR 267098 B1	02-10-2000
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US 6223277	B1	24-04-2001	NONE	